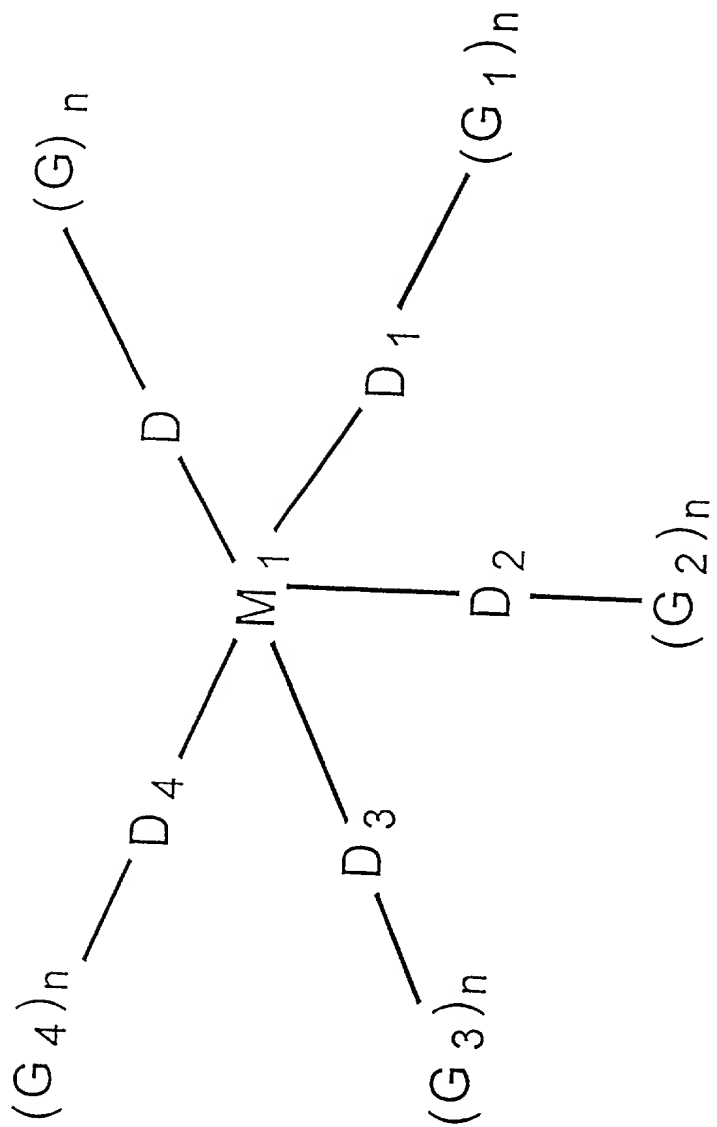


FIGURE 1



TEC

FIGURE 2

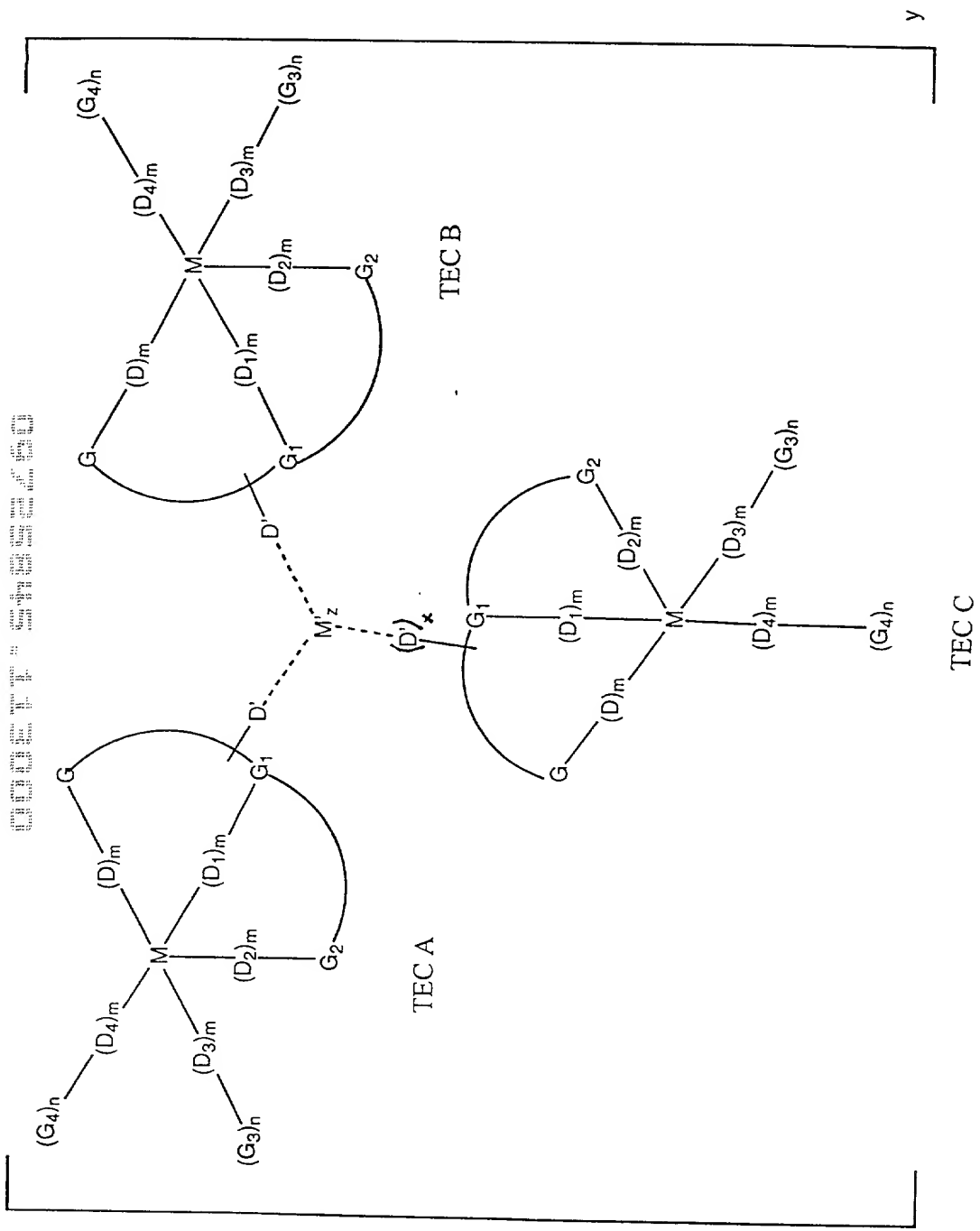
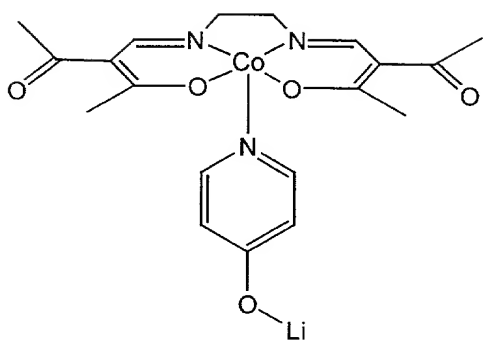
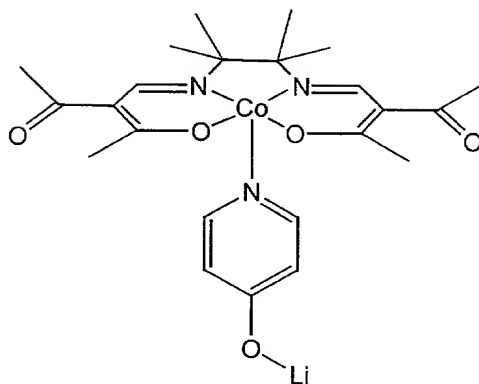


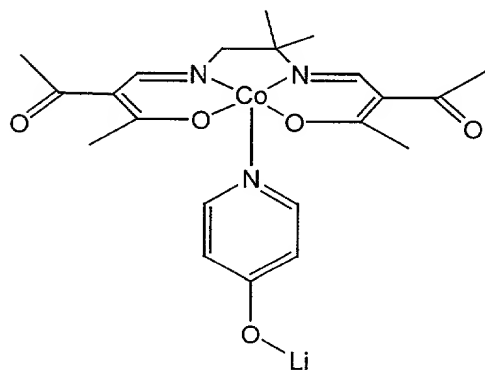
FIGURE 3



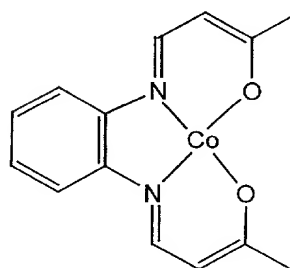
Co{Me<sub>2</sub>Ac<sub>2</sub>H<sub>2</sub>malen}(4-PyOLi)



Co{Me<sub>2</sub>Ac<sub>2</sub>H<sub>2</sub>maltmen}(4-PyOLi)



Co{Me<sub>2</sub>Ac<sub>2</sub>H<sub>2</sub>maldmen}(4-PyOLi)



Co{Me<sub>2</sub>H<sub>2</sub>H<sub>2</sub>malophen}

Figure 4

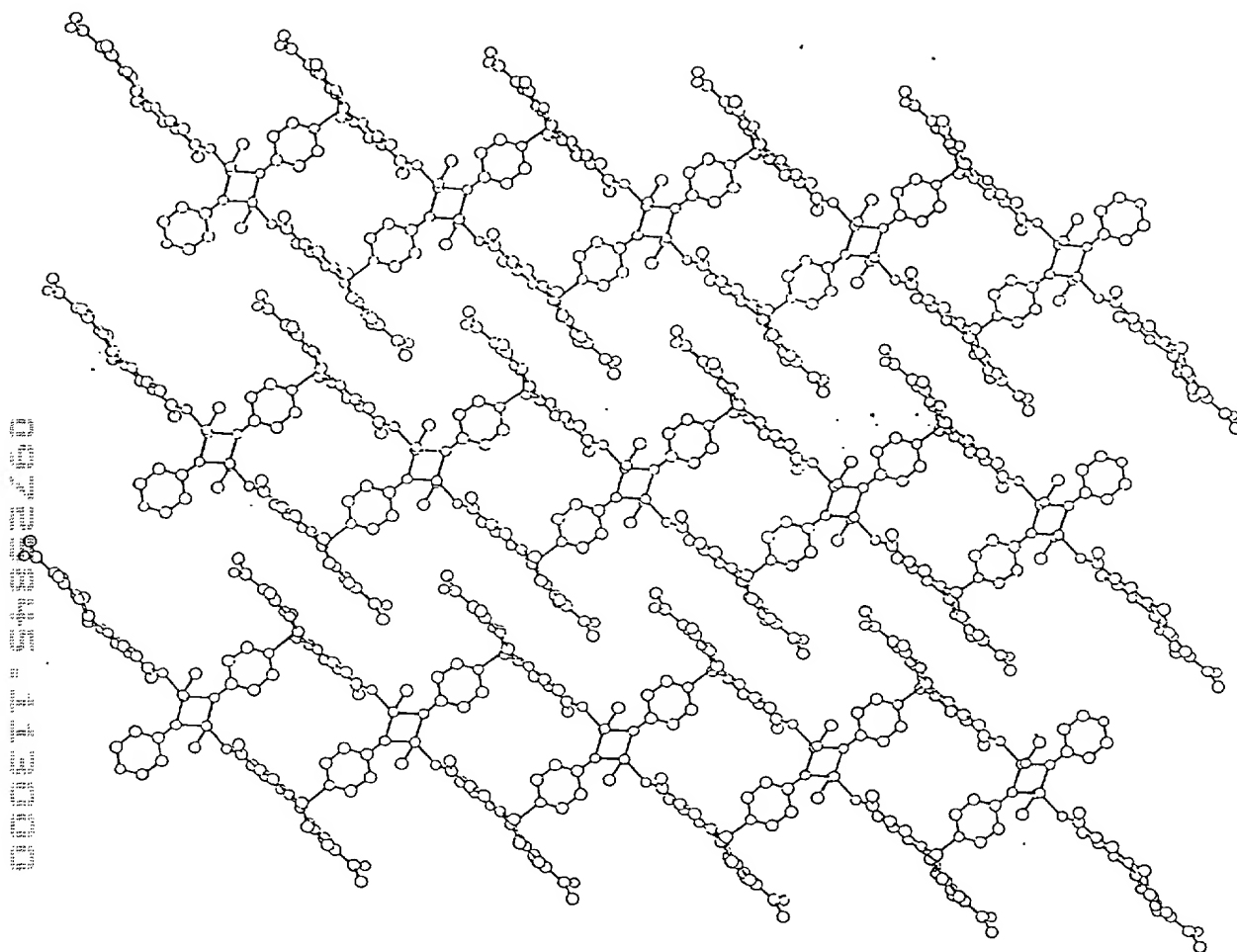


FIGURE 5 CRYSTAL STRUCTURE OF  $\text{Co}(\text{Me Ac H malen})_2(4\text{-PyOLi})_2(\text{MeOH})_2$

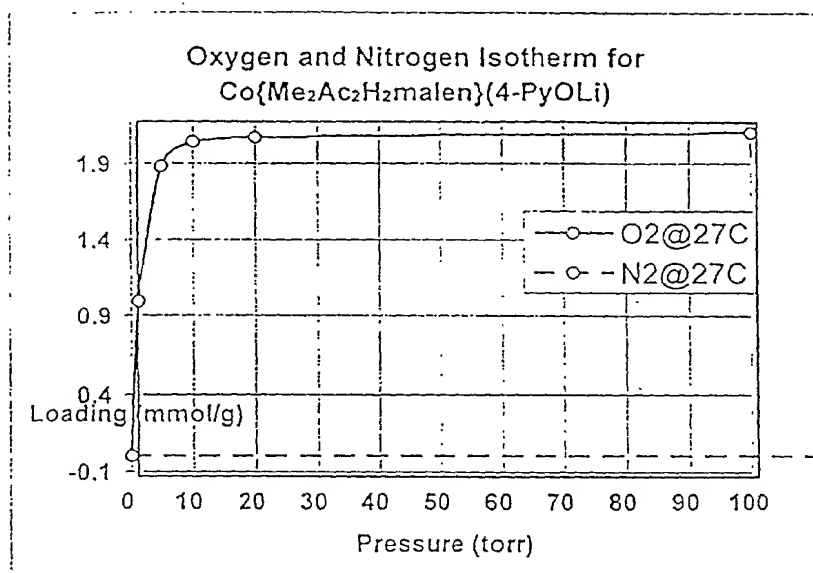


FIGURE 6 OXYGEN AND NITROGEN ISOTHERMS FOR  $\text{Co}\{\text{Me}_2\text{Ac}_2\text{H}_2\text{malen}\}(4\text{-PyOLi})$   
2 2 2



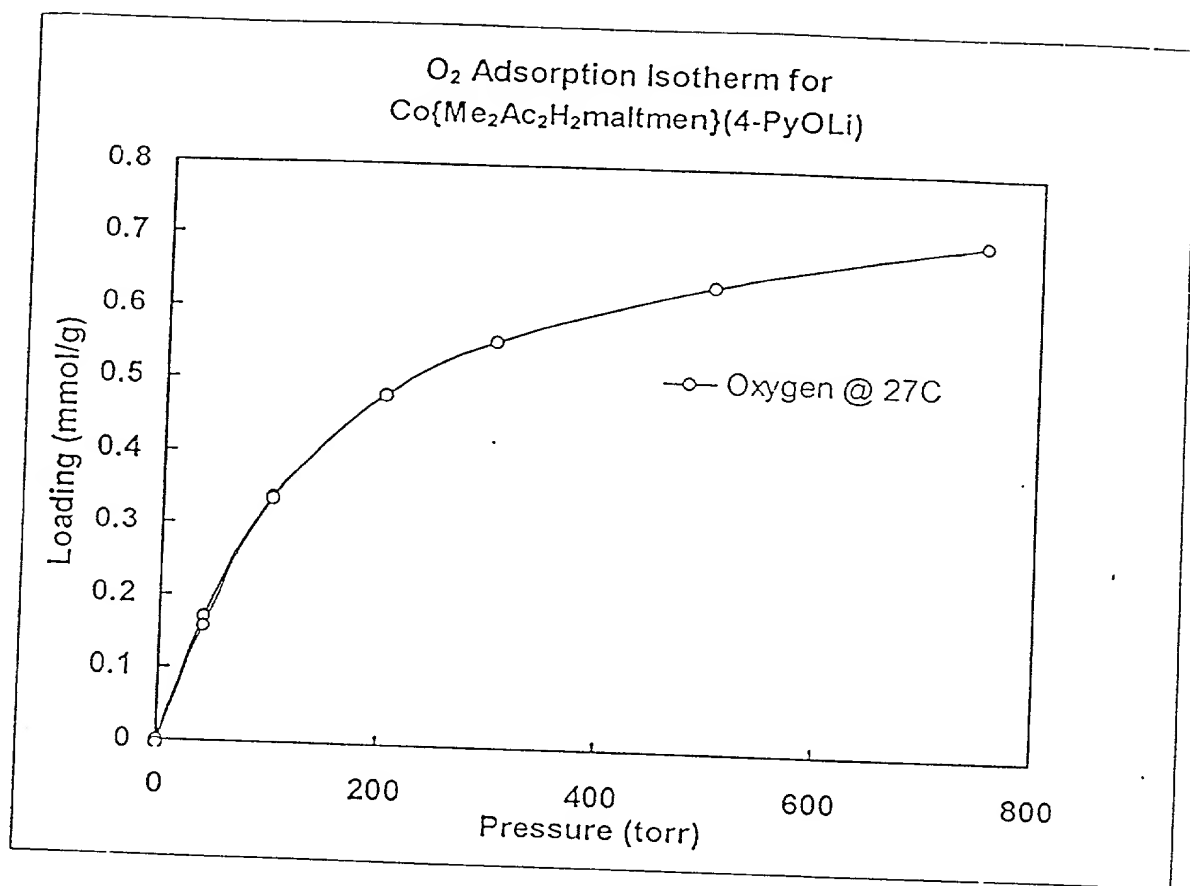


Figure 8 Oxygen Isotherm for Co{Me<sub>2</sub>Ac<sub>2</sub>H<sub>2</sub>maltmen}(4-PyOLi) at 27 °C



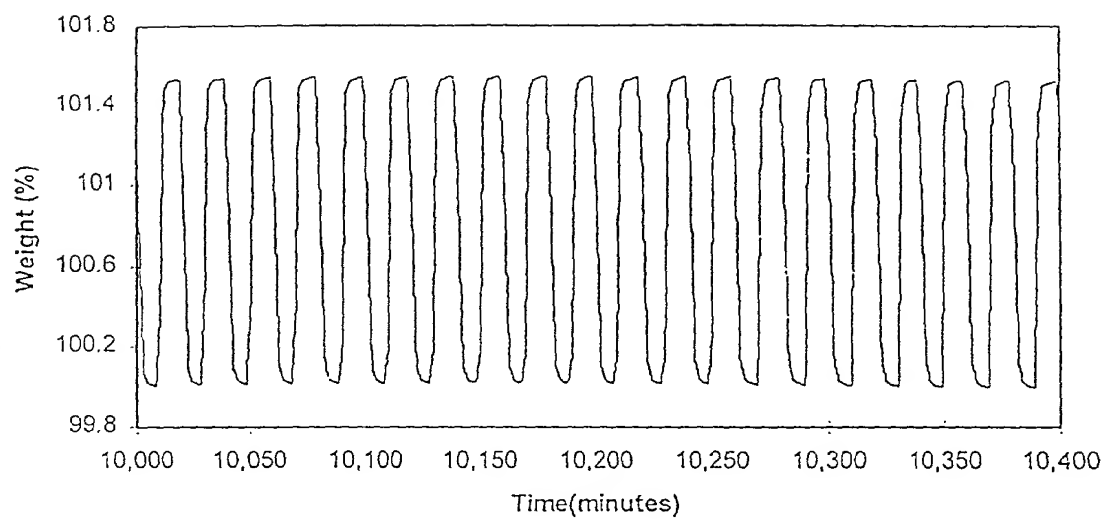


FIGURE 9

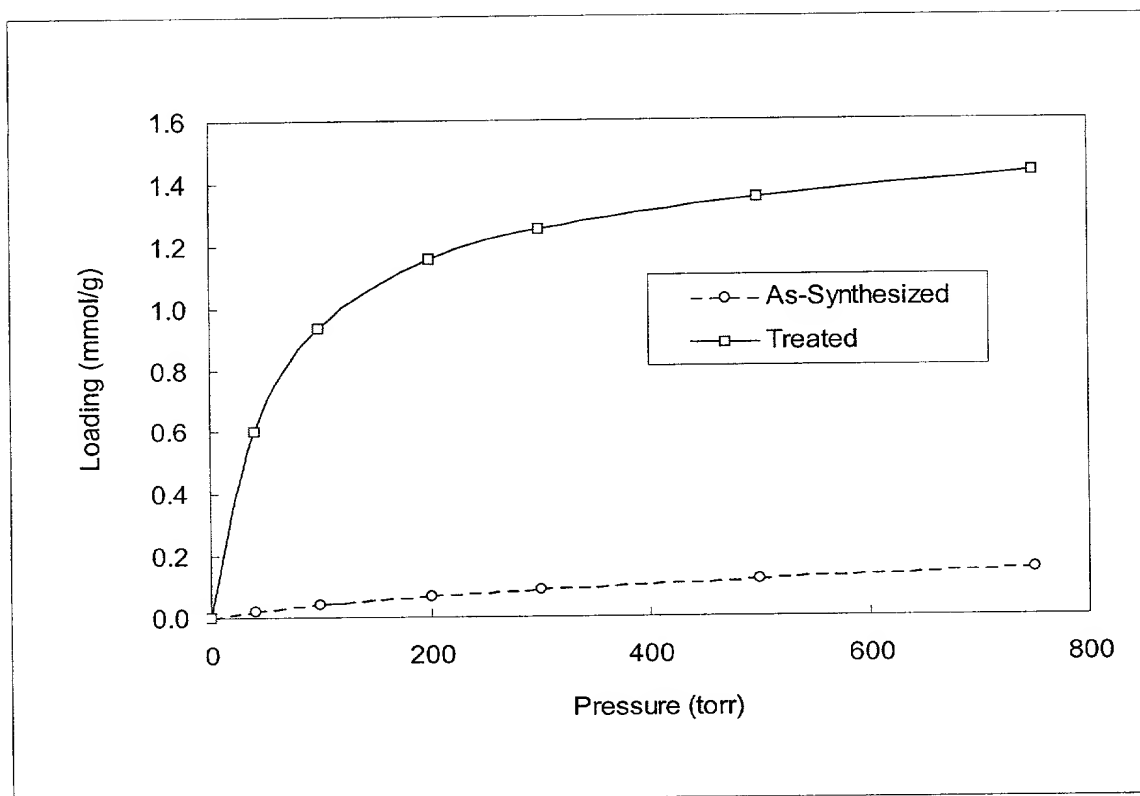


Figure 10. Oxygen Isotherms for As-synthesized and Treated  
 $\text{Co}(\text{Me}_2\text{Ac}_2\text{H}_2\text{maltmen})(4\text{-PyOLi})$

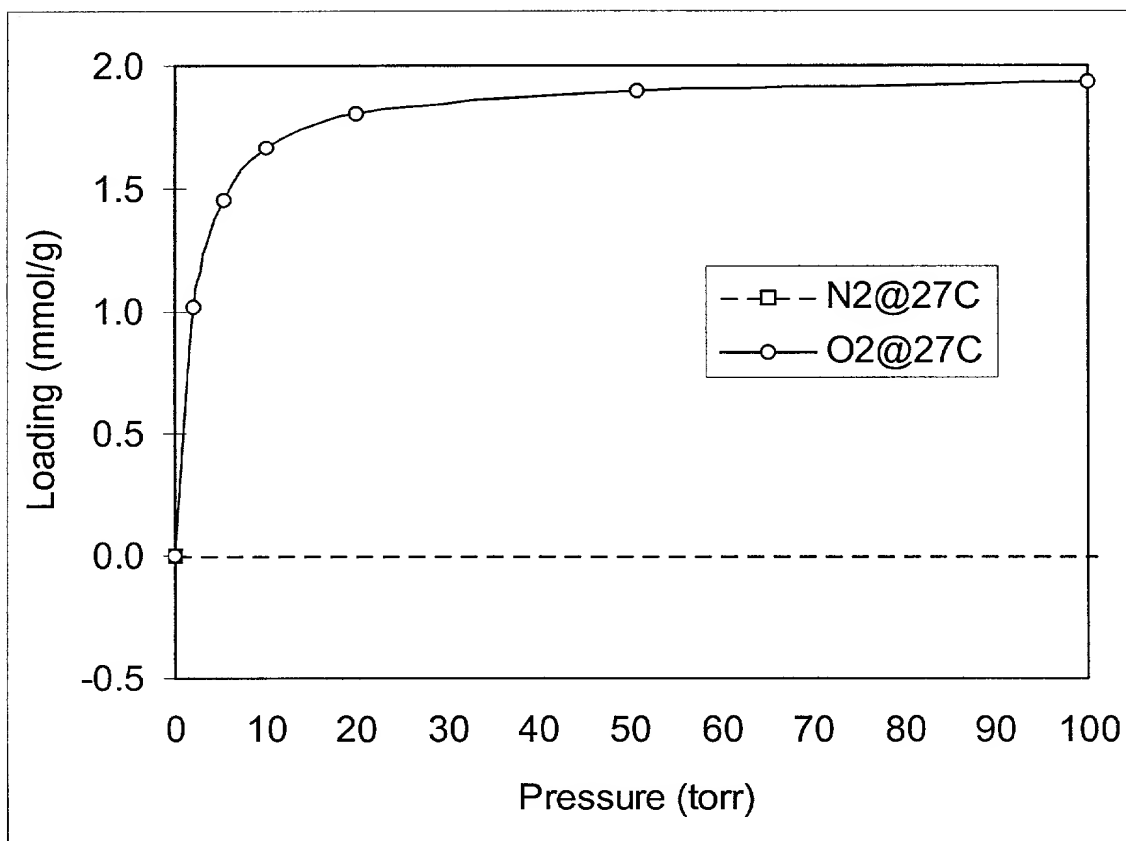


Figure 11. Oxygen and Nitrogen Isotherms for  
Co(Me<sub>2</sub>Ac<sub>2</sub>H<sub>2</sub>maldmen)(4-PyOLi)